

1. Identification of the substance/preparation and of the company/undertaking

- **Trade Name:** Spa ScaleAway
- **Other names** 1-hydroxyethylidene-1,1-diphosphonic acid
- **Intended use of chemical** To prevent metal staining of spas and ornamental water features
- **Manufacturer/Supplier** Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire
GL52 7RS
Tel: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083
- **Contact E-mail for advice** E-mail: sales@cpc-chemicals.co.uk
- **Emergency Telephone** Tel: +44 (0) 8712 229081 (office hours)

2. Hazard Identification

- **Hazard description**



Xi: Irritant

- **Hazard Information concerning particular hazards for human and the environment**

R36/38 Irritating to eyes and skin

- **GHS label elements**



Warning

H315 Causes skin irritation
H319 Causes serious eye irritation

- **Precautionary Statements**

P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children
P103 Read label before use
P261 Avoid breathing mist
P280 Wear protective gloves and eye/face protection

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P302+352: IF ON SKIN : Wash with plenty of soap and water

- **Storage**

P401 Store in accordance with local/regional/national regulations

- **Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

3. Composition/information on ingredients

- **Chemical characterization:**

- **CAS No. Description** 2809-21- 4 1-hydroxyethylidene-1,1-diphosphonic acid
- **EINECS Number:** 220-552-8

Trade Name: ScaleAway

4. First Aid measures

- **General Information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Provide fresh air. Consult a doctor if any discomfort continues.
- **After skin contact:** Immediately wash with soap and water and rinse thoroughly. Get professional medical attention if skin irritation persists .
- **After eye contact:** Check for and remove any contact lenses. Rinse the eye immediately with water. Continue to rinse for at least 15 minutes. Consult a doctor.
- **After Ingestion:** DO NOT INDUCE VOMITING. Wash mouth out with water. Drink plenty of water and provide fresh air. Get medical attention.


5. Fire fighting measures

- **Suitable extinguishing media:** Use fire extinguishing methods suitable for surrounding conditions
- **Special protective equipment:**
 - ~ Wear self-contained respiratory device
 - ~ Wear fully protective suit
 - not inhale explosion or combustion gases~ Do

6. Accidental release Measures

- **Personal Protection**
 - ~ Ensure adequate ventilation
 - ~ Use appropriate personal protective equipment as detailed in section 8
 - ~ Keep unprotected persons away
- **Environmental Protection**
 - ~ Do not allow to penetrate ground,/soil.
 - ~ Do not allow to enter sewers/surface or ground water
- **Methods for cleaning:**
 - ~ Absorb with liquid binding material (sand, diatome, acid binders, sawdust)
 - ~ Send for recovery or disposal in suitable containers
 - ~ Do not mix with other chemical formulations in their concentrated form

7. Handling and storage

- **Personal Protection**
 - 
 - ~ Prevent formation of aerosols
 - ~ Do not mix with other chemical formulations in their concentrated form.
 - ~ Ensure good ventilation / exhaustion at the workplace
- **Storage**
 - Requirements to be met by storerooms:** ~ Prevent any seepage into the ground
 - Information about storage in common facility:** ~ Store away from oxidising agents.
 - Further information** ~ Store in cool, dry, conditions in well sealed receptacles.

8. Exposure control/personal protection

- **Exposure control limits and source:**

- **Personal Protective Equipment**

- **General protective and hygienic measures**

- ~ Keep away from all foodstuffs, beverages and feed.
- ~ Immediately remove all soiled and contaminated clothing.
- ~ Wash hands before break and at the end of work.
- ~ Avoid contact with eyes and skin

- **Respiratory Protection** ~ Use suitable respiratory protective device only when aerosol or mist is formed.



- **Hand Protection** Protective Gloves

- ~ The glove material has to be impermeable and resistant to the product.
- ~ Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material but also on further marks and varies from manufacturer to manufacturer. As the product is a preparation of several substances, resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

- ~ The exact breakthrough time has to be found by the manufacturer of the protective gloves and has to be observed.

- **Eye Protection**  Tightly sealed goggles

- **Body Protection** Protective work clothing

9. Physical and chemical properties

- **General Information**

Form: Liquid
Colour: Light Yellow/Colourless
Odour: Mild

- **Change in condition**

Melting Point: Undetermined
Boiling Point: 100°C

- **Flash point:** n/a
- **Ignition temperature:** >250°C
- **Self Igniting:** Product is not self igniting
- **Danger of explosion** Product does not present an explosion hazard
- **Vapour Pressure at 20°C** 23.0 hPa
- **Density at 20°C** 1.054 g/cm³
- **Solubility in water** Fully miscible
- **pH value at at 20°C** <3

Trade Name: ScaleAway

10. Stability and reactivity

- **Thermal decomposition / conditions to be avoided;**

No decomposition if used and stored in accordance with specifications.

To avoid thermal decomposition do not overheat.

- **Materials to avoid**

- ~ Strong bases
- ~ Finely powdered metals
- ~ Strong oxidising agents
- ~ Aminines.

- **Dangerous reactions**

- ~ No dangerous reactions known.

- **Decomposition products**

- ~ Carbon monoxide.
- ~ Carbon dioxide
- ~Phosphorus oxides (P205)

11. Toxicological Information

- **Acute Toxicity**

- **LD/LC50 values relevant for classification:**

2809-21- 4 **1-hydroxyethylidene-1,1-diphosphonic acid**

Oral LD50 >2000 mg/kg (rat)

Dermal LD50 >5000 mg/kg (rabbit)

- **Primary Irritant effect:**

- **On the skin:** Irritant to skin and mucous membranes

- **On the eyes:** Irritating effect

- **Sensitization:** No sensitizing effects known

- **Additional Toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification guidelines for Preparations as listed in the latest version.

~ Irritant

12. Ecological Information

- **Mobility & bioaccumulation potential:** Product is not expected to bio accumulate

- **Additional Ecological information:**

- **General Notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Water Hazard Class 1 (German regulation)(self assessment): Slightly hazardous for water

Do not allow undiluted or large quantities of product to reach ground water, water course or sewage system.

13. Disposal Considerations

- **Product:**

- **Recommendation:**

Contact waste processors for re-cycling information

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international regulations.

- **European waste catalogue:**

Waste key numbers in accordance with the European Waste catalogue (EWC) are origin referred defined.

Since this product is used in several industries, no waste key can be provided by the supplier. The waste key number

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14. Transport Information

- **Land Transport ADR/RID (cross border)**

- **ADR/RID class** 8

- **Danger code (Kemler)**

- **U N No** UN3265



- **Packing group** III

- **Proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S. (1-hydroxyethylidene-1,1 diphosphonic acid)

- **Tunnel code** E

- **Maritime Transport IMDG**

- **IMDG class** 8

- **U N No** UN3265



- **Packing group** III

- **Marine Pollutant** No

- **Proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S. (1-hydroxyethylidene-1,1 diphosphonic acid)

- **Air Transport ICAO-TI and IATA-DGR**

- **ICAO/IATA class** 8

- **U N No** UN3265



- **Hazard label** 80

- **Packing group** III

- **Proper shipping name** CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S. (1-hydroxyethylidene-1,1 diphosphonic acid)

15. Regulatory information

- **Product Name** Spa ScaleAway

- **Symbol**  Xi

- **Indications of danger** Irritant

- **Risk phrases**

R36/38 Irritating to eyes and skin

- **Safety phrases**

S2 Keep out of reach of children

S23 Avoid breathing mist

S26 In case of contact with eyes, rinse immediately with water and seek medical advice.

S37/39 Wear suitable gloves and eye/face protection.

S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

S28 If in contact with skin wash with plenty of soap and water

S29/56

Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Relevant R Phrases:

R34 Causes burns
R41 Risk of serious damage to eyes

• Abbreviations and acronyms:

ADR: Accord European sur le transport des marchandises dangereuse par Route (European Agreement concerning
RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR Dangerous goods Regulations by the 'International Air Transport Association' (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the 'International Civil Aviation Organization' (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances.
CAS: Chemicals Abstracts Service (division of the Americal Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Revision	Date	By	Amendment
1	28/10/10	Linda Brueford	Section 2 & 3 amended. GHS label elements added and other minor editorial amendments